

Part Number: 1305A

UpJacketed CatSnake, Tactical CAT5E, #24-4pr, Bonded-Pairs

Product Description

CatSnake® Tactical CAT5E, 4-24 AWG bonded-pairs, stranded bare copper conductors, polyolefin insulation, inner PVC jacket, outer PVC jacket with sequential marking at two foot intervals

Technical Specifications

Product Overview

Environmental Space:	Outdoor - Aerial
Suitable Applications:	Field Deployable Cat 5e Patch, CobraNet, eSnake, Ethersound, Digital Audio over Ethernet, POE, POE+

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
24	7x32	BC - Bare Copper	0.024 in	4

Conductor Count:	8
Total Number of Pairs:	4
Conductor Size:	24 AWG

Insulation

Material	Nominal Diameter
PO - Polyolefin	0.043 in

Bonded-Pair:	N/A

Color Chart

Number	Color
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Inner Jacket Material

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.238 in	No

Outer Jacket Material

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.298 in	No

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. DCR Unbalance
93.8 Ohm/km	5 %

Capacitance

Max. Capacitance Unbalance	Nom.Mutual Capacitance

330 pF/100m	15 pF/ft

Delay

Frequency [MHz]	Max. Delay	Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
100 MHz	537.6 ns/100m	45 ns/100m	70 %

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance
1 MHz	2.4 dB/100m	65.3 dB	62.3 dB	63.3 dB	60.3 dB	63.8 dB	60.8 dB	20.0 dB	100 +/- 15	105 +/- 10
4 MHz	4.9 dB/100m	56.3 dB	53.3 dB	52.2 dB	49.2 dB	51.8 dB	48.8 dB	23.0 dB	100 +/- 15	100 +/- 10
8 MHz	6.9 dB/100m	51.8 dB	48.8 dB	46.0 dB	43.0 dB	45.7 dB	42.7 dB	24.5 dB	100 +/- 15	100 +/- 10
10 MHz	7.8 dB/100m	50.3 dB	47.3 dB	43.8 dB	40.8 dB	43.8 dB	40.8 dB	25.0 dB	100 +/- 15	100 +/- 10
16 MHz	9.9 dB/100m	47.2 dB	44.2 dB	39.0 dB	36.0 dB	39.7 dB	36.7 dB	25.0 dB	100 +/- 15	100 +/- 10
20 MHz	11.1 dB/100m	45.8 dB	42.8 dB	36.5 dB	33.5 dB	37.8 dB	34.8 dB	25.0 dB	100 +/- 15	100 +/- 10
25 MHz	12.5 dB/100m	44.3 dB	41.3 dB	33.9 dB	30.9 dB	35.8 dB	32.8 dB	24.3 dB	100 +/- 15	100 +/- 10
31.25 MHz	14.1 dB/100m	42.9 dB	39.9 dB	31.2 dB	28.2 dB	33.9 dB	30.9 dB	23.6 dB	100 +/- 15	100 +/- 10
62.5 MHz	20.4 dB/100m	38.4 dB	35.4 dB	21.4 dB	18.4 dB	27.9 dB	24.9 dB	21.5 dB	100 +/- 15	100 +/- 10
100 MHz	26.4 dB/100m	35.3 dB	32.3 dB	13.3 dB	10.3 dB	23.8 dB	20.8 dB	20.1 dB	100 +/- 15	100 +/- 10
155 MHz	33.7 dB/100m	32.4 dB	29.4 dB	4.4 dB	1.4 dB	20.0 dB	17.0 dB	18.8 dB	100 +/- 18	100 +/- 10
200 MHz	38.9 dB/100m	30.8 dB	27.8 dB		9.2 dB	17.8 dB	14.8 dB	18.0 dB	100 +/- 20	100 +/- 10
250 MHz	44.2 dB/100m	29.3 dB	26.3 dB		0 dB	15.8 dB	12.8 dB	17.3 dB	100 +/- 20	100 +/- 10
300 MHz	49.2 dB/100m	28.1 dB	25.1 dB			14.3 dB	11.3 dB	16.8 dB	100 +/- 20	100 +/- 10
310 MHz	50.1 dB/100m	27.9 dB	24.9 dB			14.0 dB	11.0 dB	16.7 dB	100 +/- 20	100 +/- 10
350 MHz	53.8 dB/100m	27.1 dB	24.1 dB			12.9 dB	9.9 dB	16.3 dB	100 +/- 22	100 ± 10 Ohm
310 MHz	49.5 dB/100m	27.9 dB	27.9 dB					18 dB		
350 MHz	53.2 dB/100m	27.2 dB	27.2 dB					17 dB		

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

Installation Temp Range:	0°C To +60°C
Non-UL Temp Rating:	+75°C
Storage Temp Range:	-30°C To +75°C
Operating Temp Range:	-30°C To +75°C

Mechanical Characteristics

Cold Bend Test:	-30°C Compliance per UL 1581
Bulk Cable Weight:	38 lbs/1000ft
Max Recommended Pulling Tension:	40 lbs
Min Bend Radius/Minor Axis:	1.25 in
Min Bend Radius/Installation:	3.0 in

Standards

NEC/(UL) Specification:	N/A
ISO/IEC Compliance:	11801 ed 2.2 (2011) Class D Patch
Data Category:	Category 5e
ANSI Compliance:	S-90-661-2012 Category 5e Patch, ANSI/NEMA WC-63.1 Category 5e Patch
Telecommunications Standards:	ANSI/TIA-568-C.2 Category 5e Patch
IEEE Specification:	IEEE 802.3bt Type 1, Type 2, Type 3
Other Specification:	NEMA WC-63.1 Category 5, ICEA 661, Category 5e Patch, TIA/EI-568-B.2, Category 5e
Other Standards:	NEMA WC-63.1 Category 5e Patch, ANSI/ICEA 661 Individually Unshielded Twisted Pair Indoor Cable

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes

EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU REACH SVHC Compliance (yyyy-mm-dd):	2017-07-10
EU RoHS Compliance Date (yyyy-mm-dd):	2006-02-20
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	No
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	No
Suitability - Oil Resistance:	No
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	60332-1
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No

Part Number

Variants

Item #	Color
1305A B591000	Black, Matte
1305A B59500	Black, Matte

Patent:	https://www.belden.com/resources/patents

Product Notes

Notes:	Values above 100 MHz are for Engineering Information Only. Operating Temperatures are Subject to Length Derating, in Addition to the 20% Length Derating for Patch Cable Insertion Loss. EtherNet/IP is a Trademark of ControlNet Internation, Ltd. under License by Open DeviceNet Vendor Association, Inc.

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